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<u>L12</u>	L11 not l10	1	<u>L12</u>
<u>L11</u>	(glycoside) near (l5)	2	<u>L11</u>
<u>L10</u>	(sugar) near (l5)	2	<u>L10</u>
<u>L9</u>	(sugar) same (l5)	57	<u>L9</u>
<u>L8</u>	l3 and l4 and l5	14	<u>L8</u>
<u>L7</u>	l3 and l4 and l5	0	<u>L7</u>
<u>L6</u>	l2 and l3 and l4 and l5	0	<u>L6</u>
<u>L5</u>	perfluoro\$	17659	<u>L5</u>
<u>L4</u>	diamagnetic\$	1661	<u>L4</u>
<u>L3</u>	paramagnet\$	6068	<u>L3</u>
<u>L2</u>	unger.in.	692	<u>L2</u>
<i>DB=EPAB,DWPI; PLUR=YES; OP=ADJ</i>			
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NEWS 4 Feb 01 DKILIT now produced by FIZ Karlsruhe and has a new update frequency  
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=> s perfluoro(w)alkyl?  
L1 1854 PERFLUORO(W) ALKYL?

=> s l1 and (paramagnet? and diamagnet?)  
L2 0 L1 AND (PARAMAGNET? AND DIAMAGNET?)

=> s l1 and paramagnet?  
L3 0 L1 AND PARMAGNET?

=> s l1 and diamagnet?  
L4 14 L1 AND PARAMAGNET?

=> s l4 and diamagnet?  
L5 0 L4 AND DIAMAGNET?  
  
=> dup rem 14  
PROCESSING COMPLETED FOR L4  
L6 14 DUP REM L4 (0 DUPLICATES REMOVED)

=> d ibib ab 1-  
YOU HAVE REQUESTED DATA FROM 14 ANSWERS - CONTINUE? Y/ (N) :y

L6 ANSWER 1 OF 14 USPATFULL  
 ACCESSION NUMBER: 2001:91229 USPATFULL  
 TITLE: .alpha.-olefins and olefin polymers and processes  
 therefor  
 INVENTOR(S): Brookhart, Maurice S., Chapel Hill, NC, United States  
 Johnson, Lynda Kaye, Wilmington, DE, United States  
 Killian, Christopher Moore, Chapel Hill, NC, United States  
 Arthur, Samuel David, Wilmington, DE, United States  
 Feldman, Jerald, Hockessin, DE, United States  
 McCord, Elizabeth Forrester, Hockessin, DE, United States  
 McLain, Stephan James, Wilmington, DE, United States  
 Kreutzer, Kristine Ann, Wilmington, DE, United States  
 Bennett, Alison Margaret Anne, Wilmington, DE, United States  
 Coughlin, Edward Bryan, Wilmington, DE, United States  
 Ittel, Steven Dale, Wilmington, DE, United States  
 Parthasarathy, Anju, Glenmoore, PA, United States  
 Tempel, Daniel Joseph, Carrboro, NC, United States  
 E. I. du Pont de Nemours and Company, Wilmington, DE, United States (U.S. corporation)

NUMBER	KIND	DATE
US 6310163	B1	20011030
US 1997-899002		19970710 (8)
Division of Ser. No. US 1996-590650, filed on 24 Jan 1996, now patented, Pat. No. US 5880241		
Continuation-in-part of Ser. No. US 1995-473590, filed on 7 Jun 1995, now abandoned Continuation-in-part of Ser. No. US 1995-415283, filed on 3 Apr 1995, now abandoned Continuation-in-part of Ser. No. US 1995-378044, filed on 24 Jan 1995, now abandoned		

RELATED APPLN. INFO.: DOCUMENT TYPE: Utility  
 FILE SEGMENT: GRANTED  
 PRIMARY EXAMINER: Wu, David W.  
 ASSISTANT EXAMINER: Rabago, R.

NUMBER OF CLAIMS: 41

EXEMPLARY CLAIM: 1

LINE COUNT: 12859

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Disclosed herein are processes for polymerizing ethylene, acyclic olefins, and/or selected cyclic olefins, and optionally selected olefinic esters or carboxylic acids, and other monomers. The polymerizations are catalyzed by selected transition metal compounds, and sometimes other co-catalysts. Since some of the polymerizations exhibit some characteristics of living polymerizations, block copolymers can be readily made. Many of the polymers produced are often novel, particularly in regard to their microstructure which gives some of them unusual properties. Numerous novel catalysts are disclosed, as well as some novel processes for making them. The polymers made are useful as elastomers, molding resins, in adhesives, etc. Also described herein is the synthesis of linear .alpha.-olefins by the oligomerization of ethylene using as a catalyst system a combination a nickel compound having a selected .alpha.-diimine ligand and a selected Lewis or Bronsted acid, or by contacting selected .alpha.-diimine nickel complexes with ethylene.

L6 ANSWER 1 OF 14 USPATFULL (Continued)  
 Bronsted acid, or by contacting selected .alpha.-diimine nickel complexes with ethylene.

L6 ANSWER 2 OF 14 USPATFULL  
 ACCESSION NUMBER: 2001:56069 USPATFULL  
 TITLE: .alpha.-olefins and olefin polymers and processes  
 therefor  
 INVENTOR(S): Johnson, Lynda Kaye, Wilmington, DE, United States  
 Killian, Christopher Moore, Chapel Hill, NC, United States  
 PATENT ASSIGNEE(S): E. I. du Pont de Nemours and Company, Wilmington, DE, United States (U.S. corporation)  
 University of North Carolina, Chapel Hill, NC, United States (U.S. corporation)

NUMBER	KIND	DATE
US 6218493	B1	20010417
US 1997-891224		19970710 (8)
Division of Ser. No. US 1996-590650, filed on 24 Jan 1996, now patented, Pat. No. US 5880241		
Continuation-in-part of Ser. No. US 1995-473590, filed on 7 Jun 1995, now abandoned Continuation-in-part of Ser. No. US 1995-415283, filed on 3 Apr 1995, now abandoned Continuation-in-part of Ser. No. US 1995-378044, filed on 24 Jan 1995, now abandoned		

RELATED APPLN. INFO.: DOCUMENT TYPE: Utility  
 FILE SEGMENT: Granted  
 PRIMARY EXAMINER: Wu, David W.  
 ASSISTANT EXAMINER: Rabago, R.

NUMBER OF CLAIMS: 24

EXEMPLARY CLAIM: 1

LINE COUNT: 12833

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Disclosed herein are processes for polymerizing ethylene, acyclic olefins, and/or selected cyclic olefins, and optionally selected olefinic esters or carboxylic acids, and other monomers. The polymerizations are catalyzed by selected transition metal compounds, and sometimes other co-catalysts. Since some of the polymerizations exhibit some characteristics of living polymerizations, block copolymers can be readily made. Many of the polymers produced are often novel, particularly in regard to their microstructure, which gives some of them unusual properties. Numerous novel catalysts are disclosed, as well as some novel processes for making them. The polymers made are useful as elastomers, molding resins, in adhesives, etc. Also described herein is the synthesis of linear .alpha.-olefins by the oligomerization of ethylene using as a catalyst system a combination a nickel compound having a selected .alpha.-diimine ligand and a selected Lewis or Bronsted acid, or by contacting selected .alpha.-diimine nickel complexes with ethylene.

L6 ANSWER 3 OF 14 USPATFULL  
 ACCESSION NUMBER: 2000:146485 USPATFULL  
 TITLE: Polymers of cyclopentene  
 INVENTOR(S): Brookhart, Maurice S., Chapel Hill, NC, United States  
 Johnson, Lynda Kaye, Wilmington, DE, United States  
 Killian, Christopher Moore, Chapel Hill, NC, United States  
 McLain, Stephan James, Wilmington, DE, United States  
 E. I. du Pont de Nemours and Company, Wilmington, DE, United States (U.S. corporation)  
 University of North Carolina, Chapel Hill, NC, United States (U.S. corporation)

NUMBER	KIND	DATE
US 6140439		20001031
US 1997-891405		19970710 (8)
Division of Ser. No. US 1996-590650, filed on 24 Jan 1996, now patented, Pat. No. US 5880241 which is a continuation-in-part of Ser. No. US 1995-473590, filed on 7 Jun 1995, now abandoned which is a continuation-in-part of Ser. No. US 1995-415283, filed on 3 Apr 1995, now abandoned which is a continuation-in-part of Ser. No. US 1995-378044, filed on 24 Jan 1995, now abandoned		

RELATED APPLN. INFO.: DOCUMENT TYPE: Utility  
 FILE SEGMENT: Granted  
 PRIMARY EXAMINER: Wu, David W.  
 ASSISTANT EXAMINER: Rabago, Roberto  
 LEGAL REPRESENTATIVE: Evans, Craig H., Lerman, Bart, Citron, Joel D.

NUMBER OF CLAIMS: 34  
 EXEMPLARY CLAIM: 1  
 LINE COUNT: 12751

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Disclosed herein are processes for polymerizing ethylene, acyclic olefins, and/or selected cyclic olefins, and optionally selected olefinic esters or carboxylic acids, and other monomers. The polymerizations are catalyzed by selected transition metal compounds, and sometimes other co-catalysts. Since some of the polymerizations exhibit some characteristics of living polymerizations, block copolymers can be readily made. Many of the polymers produced are often novel, particularly in regard to their microstructure, which gives some of them

unusual properties. Numerous novel catalysts are disclosed, as well as some novel processes for making them. The polymers made are useful as elastomers, molding resins, in adhesives, etc. Also described herein is the synthesis of linear .alpha.-olefins by the oligomerization of ethylene using as a catalyst system a combination a nickel compound having a selected .alpha.-diimine ligand and a selected Lewis or Bronsted acid, or by contacting selected .alpha.-diimine nickel complexes with ethylene.

## L6 ANSWER 4 OF 14 USPATFULL

ACCESSION NUMBER: 2000:109926 USPATFULL  
 TITLE: Copolymer of an olefin and an unsaturated partially fluorinated functionalized monomer  
 INVENTOR(S): Wang, Lin, Hockessin, DE, United States  
 Yang, Zhen-Yu, Wilmington, DE, United States  
 PATENT ASSIGNEE(S): E.I. du Pont de Nemours and Company, Wilmington, DE, United States (U.S. corporation)  
 University of North Carolina at Chapel Hill, Chapel Hill, NC, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6107422	20000822	
APPLICATION INFO.:	US 1997-899003	19970710 (8)	
RELATED APPLN. INFO.:	Division of Ser. No. US 1996-590650, filed on 24 Jan 1996, now patented, Pat. No. US 5880241 which is a continuation-in-part of Ser. No. US 1995-473590, filed on 7 Jun 1995, now abandoned which is a continuation-in-part of Ser. No. US 1995-415283, filed on 3 Apr 1995, now abandoned which is a continuation-in-part of Ser. No. US 1995-378044, filed on 24 Jan 1995, now abandoned		

DOCUMENT TYPE: Utility

FILE SEGMENT: Granted

PRIMARY EXAMINER: Wu, David W.

ASSISTANT EXAMINER: Rabago, Roberto

LEGAL REPRESENTATIVE: Citron, Joel D., Lerman, Bart E., Evans, Craig H.

NUMBER OF CLAIMS: 5

EXEMPLARY CLAIM: 1

LINE COUNT: 12825

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Disclosed herein are processes for polymerizing ethylene, acyclic olefins, and/or selected cyclic olefins, and optionally selected olefinic esters or carboxylic acids, and other monomers. The polymerizations are catalyzed by selected transition metal compounds, and sometimes other co-catalysts. Since some of the polymerizations exhibit some characteristics of living polymerizations, block copolymers

can be readily made. Many of the polymers produced are often novel, particularly in regard to their microstructure, which gives some of them

unusual properties. Numerous novel catalysts are disclosed, as well as some novel processes for making them. The polymers made are useful as elastomers, molding resins, in adhesives, etc. Also described herein is the synthesis of linear .alpha.-olefins by the oligomerization of ethylene using as a catalyst system a combination a nickel compound having a selected .alpha.-dimine ligand and a selected Lewis or Brønsted acid, or by contacting selected .alpha.-dimine nickel complexes with ethylene. Also disclosed is a copolymer of an olefin and a fluorinated monomer of the formula H<sub>a</sub>sub.f R<sub>b</sub>sub.f R<sup>a</sup>sub.f R<sup>a</sup>sub.b wherein "a" is an integer of 2 to 20, R<sub>b</sub>sub.f is a perfluoroalkylene group optionally containing one or more ether linkages, and R<sup>a</sup>sub.f is a functional group other than fluorine.

## L6 ANSWER 5 OF 14 USPATFULL

ACCESSION NUMBER: 2000:28154 USPATFULL  
 TITLE: .alpha.-olefins and olefin polymers and processes therefor  
 INVENTOR(S): Brookhart, Maurice S., Chapel Hill, NC, United States  
 Johnson, Lynda Kaye, Wilmington, DE, United States  
 Killian, Christopher Moore, Chapel Hill, NC, United States  
 Arthur, Samuel David, Wilmington, DE, United States  
 Feldman, Jerald, Hockessin, DE, United States  
 McLain, Stephan James, Wilmington, DE, United States  
 Kreutzer, Kristina Ann, Wilmington, DE, United States  
 Bennett, Alison Margaret Anne, Wilmington, DE, United States  
 Coughlin, Edward Bryan, Wilmington, DE, United States  
 Ittel, Steven Dale, Wilmington, DE, United States  
 Parthasarathy, Anju, Glenmoore, PA, United States  
 Tempel, Daniel Joseph, Carrboro, NC, United States  
 E. I. du Pont de Nemours and Company, Wilmington, DE, United States (U.S. corporation)  
 University of North Carolina Chapel Hill, United States

(U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6034259	20000307	
APPLICATION INFO.:	US 1997-891398	19970710 (8)	
RELATED APPLN. INFO.:	Division of Ser. No. US 1996-590650, filed on 24 Jan 1996, now patented, Pat. No. US 5880241 which is a continuation-in-part of Ser. No. US 1995-473590, filed on 7 Jun 1995, now abandoned which is a continuation-in-part of Ser. No. US 1995-415283, filed on 3 Apr 1995, now abandoned which is a continuation-in-part of Ser. No. US 1995-378044, filed on 24 Jan 1995, now abandoned		

DOCUMENT TYPE:

FILE SEGMENT:

PRIMARY EXAMINER: Nazaro-Gonzalez, Porfirio

LEGAL REPRESENTATIVE: Citron, Joel D., Evans, Craig H.

NUMBER OF CLAIMS: 113

EXEMPLARY CLAIM: 1,8,13

LINE COUNT: 13488

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Disclosed herein are processes for polymerizing ethylene, acyclic olefins, and/or selected cyclic olefins, and optionally selected olefinic esters or carboxylic acids, and other monomers. The polymerizations are catalyzed by selected transition metal compounds, and sometimes other co-catalysts. Since some of the polymerizations exhibit some characteristics of living polymerizations, block copolymers

can be readily made. Many of the polymers produced are often novel, particularly in regard to their microstructure, which gives some of them

unusual properties. Numerous novel catalysts are disclosed, as well as some novel processes for making them. The polymers made are useful as elastomers, molding resins, in adhesives, etc. Also described herein is

## L6 ANSWER 5 OF 14 USPATFULL (Continued)

the synthesis of linear .alpha.-olefins by the oligomerization of ethylene using as a catalyst system a combination a nickel compound having a selected .alpha.-dimine ligand and a selected Lewis or Brønsted acid, or by contacting selected .alpha.-dimine nickel complexes with ethylene.

## L6 ANSWER 6 OF 14 USPATFULL

ACCESSION NUMBER: 1999:72681 USPATFULL  
 TITLE: Polymers of C<sub>a</sub>sub.4 and higher .alpha.-olefins  
 INVENTOR(S): Brookhart, III, Maurice S., Chapel Hill, NC, United States  
 Johnson, Lynda Kaye, Wilmington, DE, United States  
 Killian, Christopher Moore, Chapel Hill, NC, United States  
 McCord, Elizabeth Forrester, Hockessin, DE, United States  
 McLain, Stephan James, Wilmington, DE, United States  
 E. I. du Pont de Nemours and Company, Wilmington, DE, United States (U.S. corporation)  
 University of North Carolina at Chapel Hill, Chapel Hill, NC, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5916989	19990629	
APPLICATION INFO.:	US 1997-891472	19970710 (8)	
RELATED APPLN. INFO.:	Division of Ser. No. US 1996-590650, filed on 24 Jan 1996 which is a continuation-in-part of Ser. No. US 1995-473590, filed on 7 Jun 1995, now abandoned which is a continuation-in-part of Ser. No. US 1995-415283, filed on 19 Apr 1995, now abandoned which is a continuation-in-part of Ser. No. US 1995-378044, filed on 24 Jan 1995, now abandoned		

DOCUMENT TYPE:

FILE SEGMENT:

PRIMARY EXAMINER: Nagumo, Mark

LEGAL REPRESENTATIVE: Citron, Joel D., Evans, Craig H.

NUMBER OF CLAIMS: 7

EXEMPLARY CLAIM: 1

LINE COUNT: 12881

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Disclosed herein are processes for polymerizing ethylene, acyclic olefins, and/or selected cyclic olefins, and optionally selected olefinic esters or carboxylic acids, and other monomers. The polymerizations are catalyzed by selected transition metal compounds, and sometimes other co-catalysts. Since some of the polymerizations exhibit some characteristics of living polymerizations, block copolymers

can be readily made. Many of the polymers produced are often novel, particularly in regard to their microstructure, which gives some of them

unusual properties. Numerous novel catalysts are disclosed, as well as some novel processes for making them. The polymers made are useful as elastomers, molding resins, in adhesives, etc. Also described herein is the synthesis of linear .alpha.-olefins by the oligomerization of ethylene using as a catalyst system a combination a nickel compound having a selected .alpha.-dimine ligand and a selected Lewis or Brønsted acid, or by contacting selected .alpha.-dimine nickel complexes with ethylene.

## L6 ANSWER 7 OF 14 USPATFULL

ACCESSION NUMBER: 1999:43707 USPATFULL  
 TITLE: .alpha.-olefins and olefin polymers and processes  
 therefor  
 INVENTOR(S): Brookhart, Maurice S., Chapel Hill, NC, United States  
 Johnson, Lynda Kaye, Wilmington, DE, United States  
 Killian, Christopher Moore, Chapel Hill, NC, United States  
 Arthur, Samuel David, Wilmington, DE, United States  
 McCord, Elizabeth Forrester, Hockessin, DE, United States  
 McLain, Stephan James, Wilmington, DE, United States  
 E. I. du Pont de Nemours and Company, Wilmington, DE, United States (U.S. corporation)  
 University of North Carolina, Chapel Hill, NC, United States (U.S. corporation)

NUMBER	KIND	DATE
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PATENT INFORMATION: US 5891963 19990406

APPLICATION INFO.: US 1997-891442 19970710 (8)

RELATED APPLN. INFO.: Division of Ser. No. US 1996-590650, filed on 24 Jan 1996 which is a continuation-in-part of Ser. No. US 1995-473590, filed on 7 Jun 1995, now abandoned which is a continuation-in-part of Ser. No. US 1995-415283, filed on 3 Apr 1995, now abandoned which is a continuation-in-part of Ser. No. US 1995-378044, filed on 24 Jan 1995, now abandoned

DOCUMENT TYPE: Utility

FILE SEGMENT: Granted

PRIMARY EXAMINER: Nagumo, Mark

LEGAL REPRESENTATIVE: Citron, Joel D., Evans, Craig H.

NUMBER OF CLAIMS: 11

EXEMPLARY CLAIM: 1

LINE COUNT: 12995

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Disclosed herein are processes for polymerizing ethylene, acyclic olefins, and/or selected cyclic olefins, and optionally selected olefinic esters or carboxylic acids, and other monomers. The polymerizations are catalyzed by selected transition metal compounds, and sometimes other co-catalysts. Since some of the polymerizations exhibit some characteristics of living polymerizations, block copolymers

can be readily made. Many of the polymers produced are often novel, particularly in regard to their microstructure, which give some of them unusual properties. Numerous novel catalysts are disclosed, as well as some novel processes for making them. The polymers made are useful as elastomers, molding resins, in adhesives, etc. Also described herein is the synthesis of linear .alpha.-olefins by the oligomerization of ethylene using as a catalyst system a combination a nickel compound having a selected .alpha.-diimine ligand and a selected Lewis or Bronsted acid, or by contacting selected .alpha.-diimine nickel complexes with ethylene.

## L6 ANSWER 8 OF 14 USPATFULL (Continued)

ethylene using as a catalyst system a combination a nickel compound having a selected .alpha.-dimine ligand and a selected Lewis or Bronsted acid, or by contacting selected .alpha.-dimine nickel complexes with ethylene.

## L6 ANSWER 8 OF 14 USPATFULL

ACCESSION NUMBER: 1999:37335 USPATFULL  
 TITLE: .alpha.-diimines for polymerization catalysts  
 INVENTOR(S): Brookhart, Maurice S., Chapel Hill, NC, United States  
 Johnson, Lynda Kaye, Wilmington, DE, United States  
 Arthur, Samuel David, Wilmington, DE, United States  
 Feldman, Jerald, Hockessin, DE, United States  
 Kreutzer, Kristina Ann, Wilmington, DE, United States  
 Bennett, Alison Margaret Anne, Wilmington, DE, United States  
 Coughlin, Edward Bryan, Wilmington, DE, United States  
 Ittel, Steven Dale, Wilmington, DE, United States  
 Parthasarathy, Anju, Glenmore, PA, United States  
 Tempel, Daniel Joseph, Carrboro, NC, United States  
 E. I. du Pont de Nemours and Company, Wilmington, DE, United States (U.S. corporation)  
 University of North Carolina, Chapel Hill, NC, United States (U.S. corporation)

NUMBER	KIND	DATE
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PATENT INFORMATION: US 5886224 19990323

APPLICATION INFO.: US 1997-891403 19970710 (8)

RELATED APPLN. INFO.: Division of Ser. No. US 1996-590650, filed on 24 Jan 1996 And a continuation-in-part of Ser. No. US 1995-473590, filed on 7 Jun 1995, now abandoned which is a continuation-in-part of Ser. No. US 1995-415283, filed on 3 Apr 1995, now abandoned which is a continuation-in-part of Ser. No. US 1995-378044, filed on 24 Jan 1995, now abandoned

NUMBER DATE

PRIORITY INFORMATION: US 1995-2654P 19950822 (60)

US 1995-7375P 19951115 (60)

DOCUMENT TYPE: Utility

FILE SEGMENT: Granted

PRIMARY EXAMINER: Nagumo, Mark

LEGAL REPRESENTATIVE: Citron, Joel D., Evans, Craig H.

NUMBER OF CLAIMS: 4

EXEMPLARY CLAIM: 1

LINE COUNT: 12949

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Disclosed herein are processes for polymerizing ethylene, acyclic olefins, and/or selected cyclic olefins, and optionally selected olefinic esters or carboxylic acids, and other monomers. The polymerizations are catalyzed by selected transition metal compounds, and sometimes other co-catalysts. Since some of the polymerizations exhibit some characteristics of living polymerizations, block copolymers

can be readily made. Many of the polymers produced are often novel, particularly in regard to their microstructure, which gives some of them

unusual properties. Numerous novel catalysts are disclosed, as well as some novel processes for making them. The polymers made are useful as elastomers, molding resins, in adhesives, etc. Also described herein is the synthesis of linear .alpha.-olefins by the oligomerization of

## L6 ANSWER 9 OF 14 USPATFULL

ACCESSION NUMBER: 1999:31002 USPATFULL  
 TITLE: Processes for making .alpha.-olefins  
 INVENTOR(S): Brookhart, III, Maurice S., Chapel Hill, NC, United States  
 Johnson, Lynda Kaye, Wilmington, DE, United States  
 Killian, Christopher Moore, Gray, TN, United States  
 Wang, Lin, Hockessin, DE, United States  
 Yang, Zhen-Yu, Wilmington, DE, United States  
 E. I. du Pont de Nemours and Company, Wilmington, DE, United States (U.S. corporation)  
 University of North Carolina, Chapel Hill, NC, United States (U.S. corporation)

NUMBER	KIND	DATE
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PATENT INFORMATION: US 5880323 19990309

APPLICATION INFO.: US 1997-891331 19970710 (8)

RELATED APPLN. INFO.: Division of Ser. No. US 1996-590650, filed on 24 Jan 1996 which is a continuation-in-part of Ser. No. US 1995-473590, filed on 7 Jun 1995, now abandoned which is a continuation-in-part of Ser. No. US 1995-415283, filed on 3 Apr 1995, now abandoned which is a continuation-in-part of Ser. No. US 1995-378044, filed on 24 Jan 1995, now abandoned

NUMBER DATE

DOCUMENT TYPE: Utility

FILE SEGMENT: Granted

PRIMARY EXAMINER: Nagumo, Mark

LEGAL REPRESENTATIVE: Evans, Craig H., Citron, Joel D.

NUMBER OF CLAIMS: 23

EXEMPLARY CLAIM: 1

LINE COUNT: 12889

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Disclosed herein are processes for polymerizing ethylene, acyclic olefins, and/or selected cyclic olefins, and optionally selected olefinic esters or carboxylic acids, and other monomers. The polymerizations are catalyzed by selected transition metal compounds, and sometimes other co-catalysts. Since some of the polymerizations exhibit some characteristics of living polymerizations, block copolymers

can be readily made. Many of the polymers produced are often novel, particularly in regard to their microstructure, which gives some of them

unusual properties. Numerous novel catalysts are disclosed, as well as some novel processes for making them. The polymers made are useful as elastomers, molding resins, in adhesives, etc. Also described herein is the synthesis of linear .alpha.-olefins by the oligomerization of ethylene using as a catalyst system a combination a nickel compound having a selected .alpha.-diimine ligand and a selected Lewis or Bronsted acid, or by contacting selected .alpha.-diimine nickel complexes with ethylene.

## L6 ANSWER 10 OF 14 USPATFULL

ACCESSION NUMBER: 1999:30922 USPATFULL

TITLE: Olefin polymers

INVENTOR(S): Brookhart, Maurice S., Chapel Hill, NC, United States  
Johnson, Lynda Kaye, Wilmington, DE, United States  
Killian, Christopher Moore, Chapel Hill, NC, United States  
McCord, Elizabeth Forrester, Hockessin, DE, United States  
McLain, Stephan James, Wilmington, DE, United States  
Kreutzer, Kristina Ann, Wilmington, DE, United States  
Ittel, Steven Dale, Wilmington, DE, United States  
Tempel, Daniel Joseph, Carrboro, NC, United States  
E. I. du Pont de Nemours and Company, Wilmington, DE, United States (U.S. corporation)

PATENT ASSIGNEE(S):

NUMBER KIND DATE

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PATENT INFORMATION:

APPLICATION INFO.: US 5880241 19990309

RELATED APPLN. INFO.: US 1996-590650 19960124 (8)

DOCUMENT TYPE: Continuation-in-part of Ser. No. US 1995-473590, filed on 7 Jun 1995, now abandoned which is a continuation-in-part of Ser. No. US 1995-415283, filed on 3 Apr 1995, now abandoned which is a continuation-in-part of Ser. No. US 1995-378044, filed on 24 Jan 1995, now abandoned

FILE SEGMENT: Utility

PRIMARY EXAMINER: Granted

LEGAL REPRESENTATIVE: Nagumo, Mark

NUMBER OF CLAIMS: Evans, Craig A., Citron, Joel D.

EXEMPLARY CLAIM: 63

LINE COUNT: 1

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Disclosed herein are processes for polymerizing ethylene, acyclic olefins, and/or selected cyclic olefins, and optionally selected olefinic esters or carboxylic acids, and other monomers. The polymerizations are catalyzed by selected transition metal compounds, and sometimes other co-catalysts. Since some of the polymerizations exhibit some characteristics of living polymerizations, block copolymers

can be readily made. Many of the polymers produced are often novel, particularly in regard to their microstructure, which gives some of them

unusual properties. Numerous novel catalysts are disclosed, as well as some novel processes for making them. The polymers made are useful as elastomers, molding resins, in adhesives, etc. Also described herein is the synthesis of linear .alpha.-olefins by the oligomerization of ethylene using as a catalyst system a combination a nickel compound having a selected .alpha.-diimine ligand and a selected Lewis or Brønsted acid, or by contacting selected .alpha.-diimine nickel complexes with ethylene.

## L6 ANSWER 11 OF 14 USPATFULL (Continued)

ethylene using as a catalyst system a combination a nickel compound having a selected .alpha.-diimine ligand and a selected Lewis or Brønsted acid, or by contacting selected .alpha.-diimine nickel complexes with ethylene.

## L6 ANSWER 11 OF 14 USPATFULL

ACCESSION NUMBER: 1999:16016 USPATFULL

TITLE: Processes of polymerizing olefins

INVENTOR(S): Brookhart, Maurice S., Chapel Hill, NC, United States  
Johnson, Lynda Kaye, Wilmington, DE, United States  
Killian, Christopher Moore, Gray, TN, United States  
Arthur, Samuel David, Wilmington, DE, United States  
Feldman, Jerald, Hockessin, DE, United States  
McCord, Elizabeth Forrester, Hockessin, DE, United States  
McLain, Stephan James, Wilmington, DE, United States  
Kreutzer, Kristina Ann, Wilmington, DE, United States  
Bennett, Alison Margaret Anne, Wilmington, DE, United States  
Coughlin, Edward Bryan, Wilmington, DE, United States  
Ittel, Steven Dale, Wilmington, DE, United States  
Parthasarathy, Anju, Glenmoore, PA, United States  
Wang, Lin, Hockessin, DE, United States  
Yang, Zhen-Yu, Wilmington, DE, United States  
E. I. du Pont de Nemours and Company, Wilmington, DE, United States (U.S. corporation)  
University of North Carolina, Chapel Hill, NC, United States (U.S. corporation)

NUMBER KIND DATE

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PATENT INFORMATION: US 5866663 19990202

APPLICATION INFO.: US 1997-891332 19970710 (8)

RELATED APPLN. INFO.: Division of Ser. No. US 1996-590650, filed on 24 Jan 1996 which is a continuation-in-part of Ser. No. US 1995-473590, filed on 7 Jun 1995, now abandoned which is a continuation-in-part of Ser. No. US 1995-415283, filed on 3 Apr 1995, now abandoned which is a continuation-in-part of Ser. No. US 1995-378044, filed on 24 Jan 1995, now abandoned

DOCUMENT TYPE: Utility

FILE SEGMENT: Granted

PRIMARY EXAMINER: Nagumo, Mark

LEGAL REPRESENTATIVE: Evans, Craig H., Citron, Joel D.

NUMBER OF CLAIMS: 309

EXEMPLARY CLAIM: 1

LINE COUNT: 14322

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Disclosed herein are processes for polymerizing ethylene, acyclic olefins, and/or selected cyclic olefins, and optionally selected olefinic esters or carboxylic acids, and other monomers. The polymerizations are catalyzed by selected transition metal compounds, and sometimes other co-catalysts. Since some of the polymerizations exhibit some characteristics of living polymerizations, block copolymers

can be readily made. Many of the polymers produced are often novel, particularly in regard to their microstructure, which gives some of them

unusual properties. Numerous novel catalysts are disclosed, as well as some novel processes for making them. The polymers made are useful as elastomers, molding resins, in adhesives, etc. Also described herein is the synthesis of linear .alpha.-olefins by the oligomerization of

## L6 ANSWER 12 OF 14 USPATFULL

ACCESSION NUMBER: 1998:58109 USPATFULL

TITLE: MR imaging compositions and methods

INVENTOR(S): Snow, Robert A., West Chester, PA, United States  
Ladd, David L., Wayne, PA, United States  
Toner, John L., Downingtown, PA, United States  
Hollister, K. Robert, Chester Springs, PA, United States  
Sterling Winthrop Inc., New York, NY, United States (U.S. corporation)

NUMBER KIND DATE

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PATENT INFORMATION: US 5756688 19980526

APPLICATION INFO.: US 1993-121133 19930914 (8)

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 1992-960746, filed on 14 Oct 1992

DOCUMENT TYPE: Utility

FILE SEGMENT: Granted

PRIMARY EXAMINER: Raymond, Richard L.

LEGAL REPRESENTATIVE: Fish &amp; Richardson P.C.

NUMBER OF CLAIMS: 17

EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 3 Drawing Figure(s); 3 Drawing Page(s)

LINE COUNT: 1149

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB This invention provides compositions useful in MR imaging comprising a polymer comprising units comprising the residue of a chelating agent linked to a poly(alkylene oxide) moiety, the polymer having a paramagnetic metal ion associated therewith.

L6 ANSWER 13 OF 14 CAPLUS COPYRIGHT 2002 ACS  
 ACCESSION NUMBER: 1992:31095 CAPLUS  
 DOCUMENT NUMBER: 116:31095  
 TITLE: Kinetics and mechanism of low-temperature  
 photochemical chlorination of perfluoro  
 alkyl vinyl ethers  
 AUTHOR(S): Gorshkov, A. A.; Chernyavskii, A. I.; Tupikov, V. I.;  
 Lazareva, R. P.  
 CORPORATE SOURCE: Nauchno-Issled. Fiz.-Khim. Inst. im. Karpova, USSR  
 SOURCE: Khim. Vys. Energ. (1991), 25(5), 448-54  
 CODEN: KHVKAO; ISSN: 0023-1193  
 DOCUMENT TYPE: Journal  
 LANGUAGE: Russian  
 AB Photoysis was studied of Cl<sub>2</sub> in perfluorinated alkyl vinyl ether glasses at 77 K. Chlorination of the matrix by photoproduced Cl atom was a chain reaction and produced 3 types of paramagnetic particles: the end- and middle-chain fluoroalkyl radicals -bul.CF<sub>2</sub> and -bul.CF- resp., and paramagnetic Cl donor-acceptor complexes with olefin double bond. The middle chain -bul.CF<sub>2</sub>- radicals were inactive, served as the inhibitors of the chain reaction, and decayed at >115 K.

L6 ANSWER 14 OF 14 USPATFULL  
 ACCESSION NUMBER: 71:33412 USPATFULL  
 TITLE: METHOD OF PRODUCING NITRILE POLYMERS  
 INVENTOR(S): Johns, Irail B., Marblehead, MA, United States  
 PATENT ASSIGNEE(S): Monsanto Research Corporation, St. Louis, MO, United States  
 NUMBER KIND DATE  
 -----  
 PATENT INFORMATION: US 3609128 19710928  
 APPLICATION INFO.: US 1969-871343 19691024 (4)  
 RELATED APPLN. INFO.: Division of Ser. No. US 1964-411140, filed on 13 Nov 1964, now patented, Pat. No. US 3502579  
 Continuation-in-part of Ser. No. US 1963-324213, filed on 18 Nov 1963, now abandoned  
 DOCUMENT TYPE: Utility  
 FILE SEGMENT: Granted  
 PRIMARY EXAMINER: Schofer, Joseph L.  
 ASSISTANT EXAMINER: Kight, John  
 LEGAL REPRESENTATIVE: Ferris, L. A., Dickey, R. M., Moshier, M. B.  
 NUMBER OF CLAIMS: 5  
 LINE COUNT: 930  
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.  
 AB Method for producing polymers of nitriles, especially perfluoroglutaconitrile and acetonitrile, in the presence of catalytic materials such as, graphite, nickel chloride, metal cyanocomplexation compounds, e.g., copper phthalocyanine, at elevated temperatures, and in some cases, elevated pressures.

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NEWS 5 Feb 19 Access via Tymnet and SprintNet Eliminated Effective 3/31/02  
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NEWS 7 Mar 22 TOXLIT no longer available  
NEWS 8 Mar 22 TRCTHERMO no longer available  
NEWS 9 Mar 28 US Provisional Priorities searched with P in CA/CAplus and USPATFULL  
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Crossover limits have been increased. See HELP CROSSOVER for details.

Calculated physical property data is now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details.

<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

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 E2 1 MANNOSE MONODECANOATE/CN  
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 E4 1 MANNOSE PERMEASE/CN  
 E5 1 MANNOSE PERMEASE IIM (CLOSTRIDIUM PERFRINGENS STRAIN 13  
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 E10 1 MANNOSE PHOSPHOTRANSFERASE/CN  
 E11 1 MANNOSE PHOSPHOTRANSFERASE (LACTOBACILLUS CURVATUS CLONE  
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